1	1.	A me	ethod for detecting a cancer in a brain tissue sample, the method		
2	comprising the steps of:				
3		(A)	providing the brain tissue sample; and		
4		(B)	analyzing the brain tissue sample for a Fra-1 marker.		
1	2.	The r	method of claim 1, wherein the step (B) of analyzing the brain		
2	tissue sample	compr	rises comparing the quantity of expression of the Fra-1 marker to		
3	a first sample known to express detectable levels of the Fra-1 marker and a second				
4	sample known to not express detectable levels of the Fra-1 marker.				
1	3.	The r	nethod of claim 1, wherein the Fra-1 marker is a Fra-1 nucleic		
2	acid.				
1	4.	The r	method of claim 3, wherein the Fra-1 marker is an RNA.		
1	5.	The r	method of claim 3, wherein the Fra-1 nucleic acid is a native Fra-		
2	nucleic acid.				
1	6.	The r	nethod of claim 3, wherein the step (A) of providing a tissue		
2	sample comp	rises ob	otaining the brain tissue sample from a human subject; and the		
3	step (B) of an	alyzing	g the brain tissue sample comprises isolating RNA from the tissue		
4	sample, generating cDNAs from the isolated RNA, amplifying the cDNAs by PCR to				
5	generate a PC	R proc	luct.		
1	7.	The n	nethod of claim 3, wherein the step (A) of providing a brain		
2 .	tissue sample comprises obtaining the tissue sample from a human subject; and the				
3	step (B) of analyzing the brain tissue sample comprises isolating nucleic acid from				
4	the tissue sample, and contacting the isolated nucleic acid with an oligonucleotide				
5	probe that hybridizes under stringent hybridization conditions to the Fra-1 nucleic				
6	acid.				
1	8.	The n	nethod of claim 7, wherein the oligonucleotide probe further		
2	comprises a d	letectab	ole label.		

1	9.	The method of claim 1, wherein the Fra-1 marker is a Fra-1 protein.		
1	10.	The method of claim 9, wherein the Fra-1 protein is a native Fra-1		
2	protein.			
1	11.	The method of claim 9, wherein the step (A) of providing a brain		
2	tissue sample	ssue sample comprises obtaining the brain tissue sample from a human subject; and		
3	the step (B) of analyzing the brain tissue sample comprises contacting at least a			
4	portion of the brain tissue sample with a probe that specifically binds to the Fra-1			
5	protein.			
1	12.	The method of claim 11, wherein the probe comprises a detectable		
2	label.			
1	13.	The method of claim 11, wherein the probe comprises an antibody.		
1	14.	The method of claim 13, wherein the antibody is a polyclonal		
2	antibody.			
1	15.	The method of claim 13, wherein the antibody is a monoclonal		
2	antibody.			
	·			
1	16.	A method of modulating Fra-1 gene expression in a brain cancer cell		
2	comprising th	comprising the steps of:		
3		(A) providing a brain cancer cell that expresses a Fra-1 gene; and		
4		(B) introducing into the cell an agent that modulates the expression		
5	of the Fra-1 g	gene in the cell.		
	<i>-</i>			
1	17.	The method of claim 16, wherein the agent is an oligonucleotide.		
-	1			
1	18.	The method of claim 16, wherein the agent is an antisense		
2	oligonucleoti			

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1	19.	The method of claim 18, wherein the antisense oligonucleotide			
2	hybridizes ur	izes under stringent hybridization conditions to a polynucleotide that encodes a			
3	Fra-1 protein	ı.			
1	20.	A method of inhibiting VEGF-D gene expression in a brain cancer cell			
2	comprising the	mprising the steps of:			
3		(A) providing a brain cancer cell that expresses a VEGF-D gene			
4	promoter and a Fra-1 protein; and				
5		(B) introducing into the cell an agent that interferes with binding of			
6	the Fra-1 protein to the VEGF-D gene promoter.				
1	21.	The method of claim 20, wherein the agent specifically binds a c-Jun			
2	protein.				
1	22.	The method of claim 20, wherein the agent specifically binds Fra-1			
2	protein.				
1	23.	The method of claim 20, wherein the agent specifically binds the			
2	VEGF-D promoter.				
1	24.	The method of claim 20, wherein the agent is a variant of a native c-			
2		and the control of th			
3	Jun protein that binds the Fra-1 protein but lacks the ability to bind a VEGF-D gene promoter.				
J	promoter.				

1 25. The method of claim 20, wherein the molecule is a variant of a native

2 Fra-1 protein that binds a c-Jun protein but lacks the ability to bind a VEGF-D gene

promoter.

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1 26. The method of claim 20, wherein the step (B) of introducing an agent

2 that interferes with binding of the Fra-1 protein comprises introducing an expression

3 vector having a nucleic acid encoding the agent into the cell.

44

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1	27.	The method of claim 26, wherein the agent is an antisense		
2	oligonucleot	gonucleotide that hybridizes under stringent conditions to a polynucleotide that		
3	encodes a Fra-1 protein.			
	-0			
1	28.	The method of claim 26, wherein the agent is a variant of a native c-		
2	•	hat binds the Fra-1 protein but lacks the ability to bind a VEGF-D gene		
3	promoter.			
1	29.	The method of claim 26, wherein the agent is a variant of a native Fra-		
2	1 protein tha	at binds the c-Jun protein but lacks the ability to bind a VEGF-D gene		
3	promoter.			
1	30.	The method of claim 20, wherein the brain cancer cell is contained		
2		anium of a human subject.		
2	within the ci	amum of a numan subject.		
1	31.	The method of claim 30, wherein the agent is administered to the		
2	human subje	ct by parenteral administration.		
1	32.	The method of claim 31, wherein the parenteral administration is		
2	intravenous	or intraarterial injection.		
1	33.	The method of claim 32, wherein the agent is introduced by injection		
2		ium of the human subject.		
_	mio mo cram			
1	34.	A method of identifying a test compound that modulates expression of		
2	a Fra-1 gene in a brain cancer cell, the method comprising the steps of:			
3		(A) providing a brain cancer cell expressing a Fra-1 gene;		
4		(B) contacting the cell with the test compound; and		
5		(C) detecting a modulation in the expression of the Fra-1 gene,		
6	wherein detecting the modulation indicates that the test compound modulates			
7	expression of the Fra-1 gene.			
1	35.	The method of claim 34, wherein the cell is derived from a tissue		
•	<i></i>	and interest of armine of the contraction of the month of the property		

WP077318;1 45

sample isolated from a human brain.

1	36.	The method of claim 34, wherein the step of detecting the modulation				
2	in the expression of the Fra-1 gene comprises analyzing the cell for a change in the					
3	amount of a Fra-1 marker in the cell.					
1	37.	The method of claim 36, wherein the Fra-1 marker is a Fra-1 nucleic				
2	acid.					
1	38.	The method of claim 37, wherein the Fra-1 nucleic acid is an RNA.				
1	39.	The method of claim 37, wherein the Fra-1 nucleic acid is a native Fra				
2	1 nucleic acid	i.				
1	40.	The method of claim 36, wherein the Fra-1 marker is a Fra-1 protein.				
1	41.	The method of claim 40, wherein the Fra-1 protein is a native Fra-1				
2	protein.					
1	42.	A method for inhibiting angiogenesis associated with a brain cancer in				
2		method comprising the steps of:				
3		(A) providing an agent that interferes with Fra-1 binding to a				
4	VEGF-D gen	e promoter; and				
5		(B) administering the agent to the central nervous system of the				
6	subject in an	amount effective to inhibit blood vessel development associated with th				
7	brain cancer.					
1	43.	The method of claim 42, wherein the agent specifically binds a c-Jun				
2	protein.					
1	44.	The method of claim 42, wherein the agent specifically binds a Fra-1				
2	protein.					
1	45.	The method of claim 42, wherein the agent specifically binds the				

VEGF-D gene promoter.

1 2

- 1 46. The method of claim 42, wherein the agent is a variant of a native c-
- 2 Jun protein that binds the Fra-1 protein but lacks the ability to bind a VEGF-D gene
- 3 promoter.
- 1 47. The method of claim 42, wherein the agent is a variant of a native Fra-
- 2 1 protein that binds a c-Jun protein but lacks the ability to bind a VEGF-D gene
- 3 promoter.

47